A guidewire for inserting into body passageways during medical procedures 1. 1 comprising: 2 a length of titanium molybdenum alloy wire. 3 1 A guidewire for inserting into body passageways during medical procedures as in 2. 1 claim 1 wherein, 2 the length of titanium molybdenum alloy wire has a proximal end and a distal 3 end, the distal end being of a/smaller diameter and therefore softer than the proximal end. 4 1 A guidewire for inserting into body passageways during medical procedures as in 3. ı 2 claim 2 having, a gradient of softness between the distal end and the proximal end with the distal 3 end being softer. 4 1 A guide wire for inserting into body passageways during medical procedures as in 4. 1 claim 2 having, 2. a taper of the diameter between the distal end and the proximal end with the distal 3 end being/smaller. 4

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l	5. A guidewire for inserting into body passageways during medical procedures as in
2	claim 2 having,
3	a distal end having a doil wrapped around, with the coil touching the distal end
4	such that the coil provides springiness at the distal tip and touches the distal tip to prevent
5	kinking of the coil.
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1	6. A guidewire for inserting into body passageways during medical procedures as in
2	claim 2 having,
3	a distal tip on the end of the distal end to prevent the distal end from penetrating
4	tissue in the wall of a passageway.
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1	7. A guidewire for inserting into body passageways during medical procedures as in
2	claim 2 wherein the titanium molybdenum alloy wire comprises approximately 78%
3	titanium 11.5% molybdenum 6% zinc and 4.5% tin by weight.
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1	8. A guidewire for inserting into body passageways during medical procedures as in
2	claim 2 wherein the titanium molybdenum alloy wire comprises approximately between
3	about 75/% and about 83 %titanium, between about 8 % and about 14 %molybdenum
4	between about 4 % and about 8 % zinc and between about 2 % and about 6 % tin by
5	weight.
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